VEXCEL
IMAGING

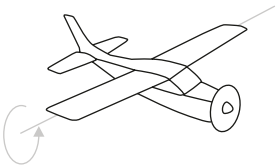
ULTRAMOUNT GSM 4000

Because your jobs hang in the balance

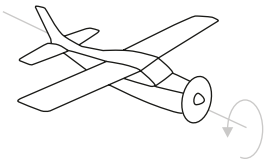
The UltraMount GSM 4000 is compatible with all UltraCam systems, ensuring aligned exposures and the best possible data collection quality by reducing the movement of the aerial system through gyro stabilization. Installed in the fuselage of the aircraft, the UltraMount maintains the system in a leveled position and offers optimal compensation for drift, roll, and pitch movements through a hydraulic gimbal equipped with four cylinders and two servo pumps. The control panel on top of the mount enables the setup and monitoring of various parameters, firmware upgrades and checks on the system‘s health condition. For enhanced stabilization accuracy, the UltraMount GSM 4000 can be complemented with the UltraNav system for IMU support.

SPECIFICATIONS & DETAILS

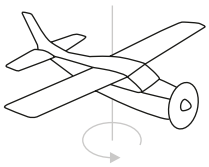
STABILIZATION SPECIFICATIONS



Pitch



Roll



Yaw

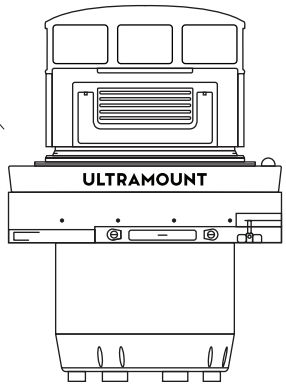
Angular stabilization ranges	
Pitch at 0° roll Roll at 0° pitch Yaw (drift)	≤± 8.8° ≤± 7.0° ≤± 25.0°
Residual deviation	
without IMU support[1] with IMU support[1] [2]	≤ 0.3° rms ≤ 0.02° rms
Residual angular rate[1]	≤± 0.2°/s rms

MOUNT SPECIFICATIONS

Operational voltage
28 VDC (24… 30 VDC)

Power consumption
50 W (average), 180 W (peak)

Payload[3]
10 to 120 kg



Length x width x height[4]
615 x 530 x 175 mm
(regular leveling positions)

Mass
29 kg

Usable diameter
410 mm

TEMPERATURE
Operation: -15 °C to +55 °C
Storage: -55 °C to +85 °C

LIFT-UP FUNCTION
For easy access to the bottom of the system

COMPATIBILITY
4th & 3rd generation UltraCams

[1] Vehicle angular motion <10 °/s and with typical data acquisition profile frequency spectrum
[2] Deviation from perpendicular dependent on accuracy of used IMU
[3] Minimum payload based on usage of passive vibration isolation ring
[4] Minimum 149.5 mm | Maximum 200.5 mm

Technical changes, printing errors and amendments reserved.

© 2024 All rights reserved • 2401